

DSMS MOOS Mission Characterization Checklist

For cost estimates to adapt and use AMMOS tools and services, we need some information about the proposed mission. Please provide a one- or two-page fact sheet to [Future Mission Planning Office Personnel](#) with the following information:

1. Mission profile and key mission events (launch date, cruise periods, TCMs, gravity assist or other flybys, orbit insertion, science periods, nominal EOM)
2. Instruments (pre-launch calibrations, imaging/spectral, radar, other)
3. Observational complexity (planning/operating/monitoring, use of autonomy, pre-planned or adaptive science)
4. S/C characteristics (spin or 3-axis stabilized, on-board computer & memory, propulsion, scan platform, telecommunications)
5. Data rates (command, telemetry)
6. Tracking support (frequency & duration during cruise, encounter or extended mission)
7. Navigation (radiometric, optical, autonomous, etc.)
8. Use of Non TMOD Capabilities (universities, other tracking networks, non NASA communications links)
9. Data considerations (types, storage volumes, products, distribution)
10. Standards compliance (CCSDS, network, TMOD services)
11. Operational modes (continuous or episodic, dedicated or shared facility)
12. Distribution of operations (S/C - ground, remote/local operations, remote/local science)
13. Operational support (staffing levels, coverage, variations during mission phases)
14. Data quantity, quality, continuity, and latency requirements by phase